Joshua S Madin

List of Publications by Year
in descending order

96 papers	5,339 citations	81900 39 h-index	95266 68 g-index
107 all docs	107 docs citations	107 times ranked	7854 citing authors

#	Article	IF	Citations
1	Coralâ€bleaching responses to climate change across biological scales. Global Change Biology, 2022, 28, 4229-4250.	9.5	44
2	AnimalTraits - a curated animal trait database for body mass, metabolic rate and brain size. Scientific Data, 2022, 9, .	5.3	15
3	Aerobic bacteria and archaea tend to have larger and more versatile genomes. Oikos, 2021, 130, 501-511.	2.7	19
4	Climate change transforms the functional identity of Mediterranean coralligenous assemblages. Ecology Letters, 2021, 24, 1038-1051.	6.4	43
5	Cell size, genome size, and maximum growth rate are nearâ€independent dimensions of ecological variation across bacteria and archaea. Ecology and Evolution, 2021, 11, 3956-3976.	1.9	43
6	A Field Primer for Monitoring Benthic Ecosystems using Structure-from-Motion Photogrammetry. Journal of Visualized Experiments, 2021, , .	0.3	7
7	Trait dimensions in bacteria and archaea compared to vascular plants. Ecology Letters, 2021, 24, 1487-1504.	6.4	21
8	No evidence for tropicalization of coral assemblages in a subtropical climate change hot spot. Coral Reefs, 2021, 40, 1451-1461.	2.2	17
9	Shifting fish consumption preferences can impact coral reef resilience in the Maldives: a case study. Marine Policy, 2021, 134, 104773.	3.2	5
10	An Indo-Pacific coral spawning database. Scientific Data, 2021, 8, 35.	5.3	34
11	Strategic traits of bacteria and archaea vary widely within substrate-use groups. FEMS Microbiology Ecology, 2021, 97, .	2.7	8
12	The contribution of corals to reef structural complexity in KÄneâ€˜ohe Bay. Coral Reefs, 2021, 40, 1679-1685.	2.2	7
13	Factors Limiting the Range Extension of Corals into High-Latitude Reef Regions. Diversity, 2021, 13, 632.	1.7	14
14	Climateâ€driven shift in coral morphological structure predicts decline of juvenile reef fishes. Global Change Biology, 2020, 26, 557-567.	9.5	23
15	Incongruence between life-history traits and conservation status in reef corals. Coral Reefs, 2020, 39, 271-279.	2.2	10
16	Novel communities are a risky business. Science, 2020, 370, 164-165.	12.6	5
17	A geometric basis for surface habitat complexity and biodiversity. Nature Ecology and Evolution, 2020, 4, 1495-1501.	7.8	47
18	A synthesis of bacterial and archaeal phenotypic trait data. Scientific Data, 2020, 7, 170.	5.3	59

#	Article	IF	Citations
19	Multi-Year Viability of a Reef Coral Population Living on Mangrove Roots Suggests an Important Role for Mangroves in the Broader Habitat Mosaic of Corals. Frontiers in Marine Science, 2020, 7, .	2.5	11
20	Latitude and protection affect decadal trends in reef trophic structure over a continental scale. Ecology and Evolution, 2020, 10, 6954-6966.	1.9	5
21	Tissue biomass trades off with growth but not reproduction in corals. Coral Reefs, 2020, 39, 1027-1037.	2.2	5
22	Open Science principles for accelerating trait-based science across the Tree of Life. Nature Ecology and Evolution, 2020, 4, 294-303.	7.8	144
23	Partitioning colony size variation into growth and partial mortality. Biology Letters, 2020, 16, 20190727.	2.3	24
24	Quantifying coral morphology. Coral Reefs, 2019, 38, 1281-1292.	2.2	46
25	Resolving the depth zonation paradox in reefâ€building corals. Ecology, 2019, 100, e02761.	3.2	16
26	Morphological traits can track coral reef responses to the Anthropocene. Functional Ecology, 2019, 33, 962-975.	3.6	59
27	Marine reserves shape seascapes on scales visible from space. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190053.	2.6	9
28	Global warming impairs stockâ€“recruitment dynamics of corals. Nature, 2019, 568, 387-390.	27.8	378
29	Towards a macroscope: Leveraging technology to transform the breadth, scale and resolution of macroecological data. Global Ecology and Biogeography, 2019, 28, 1937-1948.	5.8	20
30	Biogeographical disparity in the functional diversity and redundancy of corals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3084-3089.	7.1	98
31	Negligible effect of competition on coral colony growth. Ecology, 2018, 99, 1347-1356.	3.2	19
32	Contrasting patterns of changes in abundance following a bleaching event between juvenile and adult scleractinian corals. Coral Reefs, 2018, 37, 527-532.	2.2	25
33	BioTIME: A database of biodiversity time series for the Anthropocene. Global Ecology and Biogeography, 2018, 27, 760-786.	5.8	289
34	Species traits as indicators of coral bleaching. Coral Reefs, 2018, 37, 791-800.	2.2	20
35	How does a widespread reef coral maintain a population in an isolated environment?. Marine Ecology - Progress Series, 2018, 594, 85-94.	1.9	12
36	A decline in bleaching suggests that depth can provide a refuge from global warming in most coral taxa. Marine Ecology - Progress Series, 2018, 603, 257-264.	1.9	82

#	Article	IF	Citations
37	Cumulative effects of cyclones and bleaching on coral cover and species richness at Lizard Island. Marine Ecology - Progress Series, 2018, 604, 263-268.	1.9	42
38	Effects of tropical storms on the demography of reef corals. Marine Ecology - Progress Series, 2018, 606, 29-38.	1.9	12
39	Moving to 3D: relationships between coral planar area, surface area and volume. PeerJ, 2018, 6, e4280.	2.0	61
40	A simple, fast, and repeatable survey method for underwater visual 3D benthic mapping and monitoring. Ecology and Evolution, 2017, 7, 1770-1782.	1.9	69
41	Coral larvae are poor swimmers and require fine-scale reef structure to settle. Scientific Reports, 2017, 7, 2249.	3.3	92
42	Allometric growth in reef-building corals. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170053.	2.6	51
43	Using Traits to Assess Nontransitivity of Interactions among Coral Species. American Naturalist, 2017, 190, 420-429.	2.1	16
44	Characterization of measurement errors using structureâ€fromâ€motion and photogrammetry to measure marine habitat structural complexity. Ecology and Evolution, 2017, 7, 5669-5681.	1.9	49
45	The Coral Trait Database, a curated database of trait information for coral species from the global oceans. Scientific Data, 2016, 3, 160017.	5.3	189
46	A tropical cleaner wrasse finds new clients at the frontier. Frontiers in Ecology and the Environment, 2016, 14, 110-111.	4.0	3
47	Fecundity and the demographic strategies of coral morphologies. Ecology, 2016, 97, 3485-3493.	3.2	71
48	Predicting IUCN Extinction Risk Categories for the World's Data Deficient Groupers (Teleostei:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	5.7	54
49	Environmental factors limiting fertilisation and larval success in corals. Coral Reefs, 2016, 35, 1433-1440.	2.2	8
50	PASSIVE DEFENSIVE TRAITS ARE NOT GOOD PREDICTORS OF PREDATION FOR INFAUNAL REEF BIVALVES. Palaios, 2016, 31, 607-615.	1.3	3
51	Dead shell assemblages faithfully record living molluscan assemblages at One Tree Reef. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 457, 158-169.	2.3	12
52	Environmental tolerance governs the presence of reef corals at latitudes beyond reef growth. Global Ecology and Biogeography, 2016, 25, 979-987.	5.8	20
53	A Trait-Based Approach to Advance Coral Reef Science. Trends in Ecology and Evolution, 2016, 31, 419-428.	8.7	161
54	Scope for latitudinal extension of reef corals is species specific. Frontiers of Biogeography, 2016, 8, .	1.8	14

#	Article	IF	Citations
55	Large orb-webs adapted to maximise total biomass not rare, large prey. Scientific Reports, 2015, 5, 14121.	3.3	22
56	The full extent of the global coral reef crisis. Conservation Biology, 2015, 29, 1724-1726.	4.7	27
57	Seafarers or castaways: ecological traits associated with rafting dispersal in tropical reef fishes. Journal of Biogeography, 2015, 42, 2323-2333.	3.0	27
58	ENCOUNTER FREQUENCY DOES NOT PREDICT PREDATION FREQUENCY IN TROPICAL DEAD-SHELL ASSEMBLAGES. Palaios, 2015, 30, 818-826.	1.3	11
59	Very high coral cover at 36Â°S on the east coast of Australia. Coral Reefs, 2015, 34, 327-327.	2.2	3
60	Differential establishment potential of species predicts a shift in coral assemblage structure across a biogeographic barrier. Ecography, 2015, 38, 1225-1234.	4.5	38
61	Far away from home: the occurrence of the Indo-Pacific bannerfish <I>Heniochus acuminatus</I> (Pisces: Chaetodontidae) in the Atlantic. Bulletin of Marine Science, 2014, 90, 741-744.	0.8	7
62	Mechanical vulnerability explains sizeâ€dependent mortality of reef corals. Ecology Letters, 2014, 17, 1008-1015.	6.4	142
63	Evaluating the causal basis of ecological success within the scleractinia: an integral projection model approach. Marine Biology, 2014, 161, 2719-2734.	1.5	48
64	Faunal breaks and species composition of Indo-Pacific corals: the role of plate tectonics, environment and habitat distribution. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130818.	2.6	87
65	Human deforestation outweighs future climate change impacts of sedimentation on coral reefs. Nature Communications, 2013, 4, 1986.	12.8	90
66	Colour in insect thermoregulation: Empirical and theoretical tests in the colour-changing grasshopper, Kosciuscola tristis. Journal of Insect Physiology, 2013, 59, 81-90.	2.0	42
67	Spatial variation in mechanical properties of coral reef substrate and implications for coral colony integrity. Coral Reefs, 2013, 32, 173-179.	2.2	13
68	Adult and larval traits as determinants of geographic range size among tropical reef fishes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16498-16502.	7.1	157
69	Integrating physiological and biomechanical drivers of population growth over environmental gradients on coral reefs. Journal of Experimental Biology, 2012, 215, 968-976.	1.7	28
70	Linking coral river runoff proxies with climate variability, hydrology and land-use in Madagascar catchments. Marine Pollution Bulletin, 2012, 64, 2047-2059.	5.0	55
71	Pole-ward range expansion of Acropora spp. along the east coast of Australia. Coral Reefs, 2012, 31, 1063-1063.	2.2	106
72	Ecological traits influencing range expansion across large oceanic dispersal barriers: insights from tropical Atlantic reef fishes. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1033-1040.	2.6	177

#	Article	IF	Citations
73	Optimal web investment in sub-optimal foraging conditions. Die Naturwissenschaften, 2012, 99, 65-70.	1.6	4
74	Do Behavioral Foraging Responses of Prey to Predators Function Similarly in Restored and Pristine Foodwebs?. PLoS ONE, 2012, 7, e32390.	2.5	12
75	Calcification, Storm Damage and Population Resilience of Tabular Corals under Climate Change. PLoS ONE, 2012, 7, e46637.	2.5	82
76	High-performance spider webs: integrating biomechanics, ecology and behaviour. Journal of the Royal Society Interface, 2011, 8, 457-471.	3.4	79
77	Predators, facilitators, or both? Re-evaluating an apparent predatorâ€“prey relationship. Marine Ecology - Progress Series, 2011, 431, 299-302.	1.9	5
78	A generic structure for plant trait databases. Methods in Ecology and Evolution, 2011, 2, 202-213.	5.2	78
79	Global Gradients of Coral Exposure to Environmental Stresses and Implications for Local Management. PLoS ONE, 2011, 6, e23064.	2.5	113
80	Landscape of fear visible from space. Scientific Reports, 2011, 1, 14.	3.3	106
81	How much time can herbivore protection buy for coral reefs under realistic regimes of hurricanes and coral bleaching?. Global Change Biology, 2011, 17, 2033-2048.	9.5	54
82	Macroecological relationships between coral speciesâ€™ traits and disease potential. Coral Reefs, 2011, 30, 73-84.	2.2	29
83	Climate Change: Increasing Storm Activity. Encyclopedia of Earth Sciences Series, 2011, , 218-221.	0.1	2
84	Decentralize, adapt and cooperate. Nature, 2010, 465, 292-293.	27.8	19
85	Fishing Indirectly Structures Macroalgal Assemblages by Altering Herbivore Behavior. American Naturalist, 2010, 176, 785-801.	2.1	72
86	Owlifier: Creating OWL-DL ontologies from simple spreadsheet-based knowledge descriptions. Ecological Informatics, 2010, 5, 19-25.	5.2	10
87	Improving Data Discovery for Metadata Repositories through Semantic Search. , 2009, , .		12
88	Climate-mediated mechanical changes to post-disturbance coral assemblages. Biology Letters, 2008, 4, 490-493.	2.3	50
89	Advancing ecological research with ontologies. Trends in Ecology and Evolution, 2008, 23, 159-168.	8.7	174
90	Indirectly driven knowledge modelling in ecology. International Journal of Metadata, Semantics and Ontologies, 2008, 3, 210.	0.2	7

#	Article	IF	Citations
91	A Conceptual Modeling Framework for Expressing Observational Data Semantics. Lecture Notes in Computer Science, 2008, , 41-54.	1.3	16
92	An ontology for describing and synthesizing ecological observation data. Ecological Informatics, 2007, 2, 279-296.	5.2	209
93	Statistical Independence of Escalatory Ecological Trends in Phanerozoic Marine Invertebrates. Science, 2006, 312, 897-900.	12.6	77
94	Ecological consequences of major hydrodynamic disturbances on coral reefs. Nature, 2006, 444, 477-480.	27.8	285
95	Scaling water motion on coral reefs: from regional to organismal scales. Coral Reefs, 2006, 25, 635-644.	2.2	58
96	Mechanical limitations of reef corals during hydrodynamic disturbances. Coral Reefs, 2005, 24, 630-635.	2.2	74